

Bachelor of Science with a major in Engineering Physics

Major Requirements

Oakland University Courses	Henry Ford College Courses
MTH 1554	MATH 180
MTH 1555	MATH 183
MTH 2554	MATH 280
APM 2555	(MATH 283 and MATH 288) accepted
PHY 1510 and 1100	PHYS 231
PHY 1520 and 1100	PHYS 232
CHM 1440 and 1470	CHEM 141
EGR 1200	DRAF 123
Choose one approved Math/Science Elective	MATH 275

There are two professional depth areas to choose from. The courses below apply to the specific depth area listed. It is recommended to meet with an academic adviser at OU to discuss the different options.

Oakland University Courses	Henry Ford College Courses
ME 3200 [^] (Applied Mechanics Depth Area)	ENGR 233 [^]
ME 3250 [^] (Applied Mechanics Depth Area)	ENGR 235 [^]

[^]Students who take this equivalent at Henry Ford are required to take a 1 credit lab at Oakland University

Students may transfer an unlimited amount of credit from Henry Ford, and must complete a minimum of 45 credit hours from OU to meet degree requirements. As programs may limit how much transfer credit can be used toward requirements, **it is highly recommended that students work with both an OU academic adviser and their Henry Ford academic adviser to maximize the applicability of coursework to specific requirements.**

TRANSFERRING WITH THE MICHIGAN TRANSFER AGREEMENT (MTA):

When choosing to complete MTA to satisfy General Education, please confirm the best courses to take to fulfill the agreement with your academic adviser at Henry Ford or at the [Henry Ford MTA Approved Courses](#) website. Completing MTA when following this major guide will satisfy OU's transferable General Education requirements.

Additional course requirements for MTA when following this major guide (minimum 30 credit hours required for MTA):

- ENG 131, 131A, or 131H
- ENG 132 or 132H (Review your MTA plans with an OU academic adviser)
- Two MTA Approved Social Sciences courses
- Two MTA Approved Humanities or Fine Arts courses

TRANSFERRING WITHOUT MTA:

If you intend to transfer without MTA, you can choose to complete additional coursework to fulfill OU's individual General Education categories instead. When following this major guide, please reference the [Henry Ford General Education Transfer Guide](#) for the Henry Ford courses that satisfy these specific OU General Education categories:

- Writing Foundations (ENG 132 or 132H)
- Arts
- Language and Culture
- Global Perspective
- Literature
- Social Science
- U.S. Diversity

All prospective students should call the School of Engineering and Computer Science (SECS) Academic Advising Office at (248) 370-2201 to schedule an appointment. Their office can also be contacted by email at secsadvising@oakland.edu, or visit their [website](#) for more information.

NOTES:

Transfer students are admitted directly to the major if they have a cumulative GPA of 2.8 or higher, if students have a GPA between 2.5 and 2.79, they are admitted as a “Candidate” to the SECS, and will need to meet established criteria to change their major.

Students apply for major standing once they have completed math, science, and core engineering courses.

Oakland University will always honor the **MACRAO transfer agreement** and apply it to the General Education requirement the same as MTA.

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE (SECS) TALKING POINTS:

Learn more about OU's [ABET accredited programs](#): (Bioengineering, Mechanical Engineering, Computer Engineering, Electrical Engineering, Industrial & Systems Engineering, Information Technology and Computer Science).

Learn about ways to [get involved](#) in over 20 student organizations affiliated with SECS, as well as different professional organizations related to careers in engineering and computer science!

OU students also participate in competitions such as Intelligent Ground Vehicle, [Formula SAE](#), North American International Auto Show in Detroit, GrizzHacks, and Maker Faire Detroit.

OU offers a number of [scholarship opportunities](#) to students in the School of Engineering and Computer Science to help pay for your education.

The School of Engineering and Computer Science offers a wide variety of [opportunities for undergraduate research](#).

SECS students can work with a career consultant about your resume, job search or to practice your interviewing skills. There are also a number of networking events each month and [resources available through Career Services](#). Employers from hundreds of companies participate in our annual Engineering and IT Career Fair in search of Oakland students to fill internship and full-time opportunities. 85% of SECS graduates from July 2019 to June 2020 completed an internship or internship-like experience.